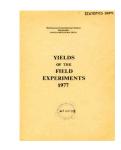
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# Yields of the Field Experiments 1977



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# 77/R/B/5 Mixed Varieties and Mildew - Barley

#### **Rothamsted Research**

Rothamsted Research (1978) 77/R/B/5 Mixed Varieties and Mildew - Barley; Yields Of The Field Experiments 1977, pp 354 - 355 - DOI: https://doi.org/10.23637/ERADOC-1-29

#### 77/R/B/5

#### SPRING BARLEY

#### MIXED VARIETIES AND MILDEW

Object: To study mildew development and yield of variety mixtures sown at different seed rates, with and without a fungicidal seed dressing - Delafield.

Sponsor: J.F. Jenkyn.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 9.14.

Treatments: All combinations of:-

1.	VAR S	SR	Varieties	and	seed	rates:
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DANSAIN Z	hassan, sown at 100 kg		
MIDAS 2	Midas, sown at 160 kg		
WING 2	Wing, sown at 160 kg		
MIXED 1	Equal parts of the three varieties mixed and sown	at 8	30 kg
MIXED 2	Equal parts of the three varieties mixed and sown	at 1	60 kg
MIXED 3	Equal parts of the three varieties mixed and sown	at 2	240 kg

FUNGCIDE Systemic fungicidal seed dressing:

NONE None

ETHIRIMO Ethirimol at 15 g per 100 kg seed

NOTE: All plots were separated and surrounded by 12 m of variety Proctor, seed dressed ethirimol at 45 g per 100 kg seed, sprayed tridemorph at 0.53 kg in 340 l on 12 July, 1977. Yields were taken from this crop, adjacent to plots, and used for covariance analysis.

Basal applications: Manures: (20:14:14) at 380 kg, combine drilled. Weedkillers: Mecoprop with bromoxynil and ioxynil ('MAC CMPP' at 2.8 1 with 'Oxytril CM' at 1.1 l in 220 1).

Cultivations, etc.:- Ploughed: 27 Oct, 1976. Spring-tine cultivated: 10 Mar, 1977. Sown: 12 Mar. Weedkillers applied: 24 May. Combine harvested: 5 Sept. Previous crops: Beans 1975, wheat 1976.

NOTE: Seedling emergence counts were made. Mildew was assessed on three occasions. Ear counts were made in August.

### 77/R/B/5

### GRAIN TONNES/HECTARE

### \*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

VAR SR FUNGCI DE	HASSAN 2	MIDAS 2	WING 2	MIXED 1	MIXED 2	MIXED 3	MEAN
NONE ETHIRIMO	4.09 3.92	4.70 5.03	4.38 4.44	4.45 4.40	4.52 4.42	4.57 4.78	4.45
MEAN	4.00	4.86	4.41	4.43	4.47	4.68	4 47

# \*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	FUNGCIDE	VAR SR	FUNGCIDE VAR SR	
SED	0.046	0.081	0.114	

## \*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP	21	0.137	3.1

GRAIN MEAN DM% 83.6

PLOT AREA HARVESTED 0.00260